

**PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)  
FY 2006**

(Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4848)

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TITLE OF THE INVENTION

ILLUMINATION APPARATUS AND DISPLAY APPARATUS USING  
THE ILLUMINATION APPARATUS

## CROSS-REFERENCE TO RELATED APPLICATIONS

5 This application is based upon and claims the benefit of priority from the prior Japanese Patent Application No. 2002-257884, filed September 3, 2002, the entire contents of which are incorporated herein by reference.

## 10 BACKGROUND OF THE INVENTION

## 1. Field of the Invention

The present invention relates to an illumination apparatus in which usage efficiency of light is high and variations in quantity of light are little, and to a display apparatus which projects and displays an image by using the illumination apparatus.

## 2. Description of the Related Art

Conventionally, as a high directivity illumination apparatus used for a projection display apparatus or the like, examples in which an LED emitting diffused light and a tapered rod are provided thereat are disclosed in USP No. 6,318,863 and USP No. 6,227,669

20 B1. Namely, an LED light source is disposed so as to be close to a small-diameter opening of the tapered rod. Light which is incident from the small-diameter opening of the tapered rod into the tapered rod is transmitted so as to be totally reflected at the